

SAFETY DATA SHEET

Creation Date: 21-Jan-2008 Revision Date: 4-Sept-2019 Revision Number: 5

1. Identification

Product Name Fruit Juice/Puree, 6-18 Bx, or Fruit Juice/Puree Concentrate, 40-70 Brix

Catalog Numbers: all relating to juices/purees, or their concentrates; Growers or their customer's numbers

Synonyms Fruit juice, fruit puree, fruit juice concentrate, or fruit puree concentrate, made from any fruit,

including Concord grape, Niagara grape, Catawba grape, Fredonia grape, other grapes, apple,

blueberry, bilberry, cherry, cranberry, peach, plum, or other fruits.

Recommended UseBlending with water and essence to provide food grade fruit juice or puree.

Uses advised against No information available

Details of the supplier of the safety data sheet

Company	Entity / Business Name	Emergency Telephone Number
Growers Co-operative Grape Juice Co	same	For Information US, call: 716-326-3161
112 North Portage St		Emergency number, US: 716-326-3161
Westfield NY 14787		

2. Hazard(s) identification

Classification Under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the hazard classification criteria are not met for any components of this mixture.

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Haz/Non-haz

Component	CAS-No	Weight %
Water	7732-18-5	26 - 91
Fructose	57-48-7	2 - 35
Glucose	50-99-7	2 – 30
Sucrose	57-50-1	0 - 30
Tartaric acid	87-69-4	0 - 4
Malic acid	97-67-6	0 - 4
Citric acid	77-92-9	0 - 15

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention if symptoms occur.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

Inhalation Get medical attention if symptoms occur.

Ingestion Give water to drink. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed: Contacted areas may exhibit irritation

Chronic symptoms: None expected in normal conditions of use.

Notes to Physician Food grade material that is potentially concentrated. Treat symptomatically.

5. Fire-fighting measures

cool unopened containers. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media none

Flash Point, method no data available

Autoignition Temperature no data available

Explosion Limits

Upper unlikely to be explosive Lower unlikely to be explosive

Sensitivity to Mechanical Impact unlikely to be sensitive to mechanical impact
Sensitivity to Static Discharge unlikely to be sensitive to static discharge

Specific Hazards Arising from the Chemical none known

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or

on clothing.

Environmental Precautions None known

Methods for Containment, Clean Up Dilute with water and flush to drain. Dispose of in accordance with local and state regulatory

requirements.

7. Handling and storage

Handling Wash hands before/after breaks and before/after handling product. Avoid contact with eyes,

skin, and clothing.

Storage Keep containers closed in a dry, cool and well-ventilated place. May be stored frozen. May be

shipped at ambient temperatures for a few days.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Water	No limits	No limits	No limits	No limits	No limits	No limits
Fructose	No limits	No limits	No limits	No limits	No limits	No limits
Glucose	No limits	No limits	No limits	No limits	No limits	No limits

Sucrose (dry)	TWA: 10 mg/m3	(Vacated) TWA: 15 mg/m3 (Vacated) TWA: 5 mg/m3 TWA: 15 mg/m3 TWA: 5 mg/m3	TWA: 10 mg/m3 TWA: 5 mg/m3	TWA: 10 mg/m3	TWA: 10 mg/m3 STEL: 20 mg/m3	TWA: 10 mg/m3
Tartaric acid	No limits	No limits	No limits	No limits	No limits	No limits
Malic acid	No limits	No limits	No limits	No limits	No limits	No limits
Citric acid	No limits	No limits	No limits	No limits	No limits	No limits

Legend

ACGIH - American Conference of Governmental Hygienists
OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation and floor drainage. Ensure that eyewash stations and safety

showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. Physical and chemical properties

Physical State liquid

Appearance characteristic of fruit, from yellow to red to purple, water-like to viscous

Odor fruity, characteristic of the named fruit

Odor Threshold No information available.

pH 2.5 – 4.0

Melting Point/Range -25 - 28F/ -32 - -2C Boiling Point/Range 214 - 217 F/ 101 - 103 C

Flash Point no data available
Evaporation Rate no data available
Flammability (solid, gas) no data available

Flammability or explosive limits

Upper no data available
Lower no data available
Vapor Pressure no data available
Vapor Density no data available

Relative Density
Solubility
1.03 – 1.34
Infinitely soluble in water
Partition coefficient; n-octanol/water
no data available (log Pow)

Autoignition Temperature no data available

Decomposition temperature No information available.

Viscosity water-like

Molecular Formula miyture

Molecular Formula mixture
Molecular Weight mixture

10. Stability and reactivity

Reactive Hazard None known, based on information available.

Stability Stable under ambient, refrigerated, and freezing conditions.

Conditions to Avoid Non-food grade environments. Excess heat. Mixing with yeast may lead to fermentation into

ethanol

Incompatible Materials Strong oxidizing agents, strong acids

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

11. Toxicological information

Acute Toxicity not acutely toxic

LD50 and LC50 data no data available, see component data below

Routes of exposure/symptoms, both immediate and delayed effects as well as chronic effects from short and long term exposure:

Eyes Contacted areas may exhibit irritation
Skin Contacted areas may exhibit irritation

Inhalation No hazard in normal use

Ingestion This is a food product. May give nourishment if swallowed.

Sensitization Not likely

Toxicologically Synergistic Products no information available

Component Information

Component	CAS-No	LD50 Oral	LD50 Dermal	LD50 Inhalation
Water	7732-18-5	Not listed	Not listed	Not listed
Fructose	57-48-7	Not listed	Not listed	Not listed
Glucose	50-99-7	25.8 g/kg (rat)	Not listed	Not listed
Sucrose	57-50-1	Not listed	Not listed	Not listed
Tartaric acid	87-69-4	Not listed	Not listed	Not listed
Malic acid	97-67-6	Not listed	Not listed	Not listed
Citric acid	77-92-9	3000 mg/kg (Rat)	Greater than 2 g/kg (rat)	Not listed

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
Fructose	57-48-7	Not listed				
Glucose	50-99-7	Not listed				
Sucrose	57-50-1	Not listed				
Tartaric acid	87-69-4	Not listed				
Malic acid	97-67-6	Not listed				
Citric acid	77-92-9	Not listed				

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety & Health Administration Mexico: Occupational Exposure Limits – Carcinogens

Mutagenic EffectsNone knownReproductive EffectsNone knownDevelopmental EffectsNone knownTeratogenicityNone knownReproductive EffectsNone known

STOT (specific target organ toxicity) - single exposure None known STOT (specific target organ toxicity) - repeated exposure None known

Endocrine Disruptor Information None known Other Adverse Effects None known

12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	log P(o/w)
Water	No limits	No limits	No limits	No limits	Not listed
Fructose	No limits	No limits	No limits	No limits	Not listed
Glucose	No limits	No limits	No limits	No limits	Not listed
Sucrose	No limits	No limits	No limits	No limits	-3.67
Tartaric acid	No limits	No limits	No limits	EC50=230 mg/L 48h	-1.7
Malic acid	No limits	No limits	No limits	No limits	Not listed
Citric acid	No limits	Leuciscus idus: LC50 = 440-760 mg/L/96h	Photobacteriumphosphoreum: EC50 = 14mg/L/15 min	EC50 = 120 mg/L/72h	-1.72

Persistence and Degradability Bioaccumulation/ Accumulation

Does not bioaccumulate

Mobility

Will likely be mobile in the environment due to its water solubility.

Other adverse effects None known

13. Disposal considerations

Persistence is unlikely. Soluble in water. Biodegradable.

Waste Disposal Methods Dilute and flush to drain. Dispose of in accordance with local, state, and federal regulations.

14. Transport information

DOT (USA)Not regulatedTDG (Canada)Not regulatedIATA (air transport)Not regulatedIMDG/IMO (maritime)Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINC	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	X	Х	-	231-791-2	-		Х	-	Х	Х	Х
Fructose	X	Х	-	200-333-3	-		Χ	Χ	Х	Χ	X
Glucose	X	X	-	200-075-1	-		Χ	Χ	Χ	Χ	Χ
Sucrose	X	Х	-	200-334-9	-		Χ	-	Χ	Χ	Χ
Tartaric acid	X	X	-	201-766-0	-		Χ	Χ	Χ	Χ	Χ
Malic acid	X	X	-	202-601-5	-		Χ	Χ	Χ	Χ	Χ
Citric acid	X	X	-	201-069-1	-	·	X	X	X	X	X

Legend: X -Listed

U.S. Federal Regulations

TSCA 12(b) Not applicable SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act Not applicable
Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not Applicable

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California Proposition 65

To the best of our knowledge, this product does not contain any chemicals listed under Proposition 65

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	Not listed	Not listed	Not listed	Not listed	Not listed
Fructose	Not listed	Not listed	Not listed	Not listed	Not listed
Glucose	Not listed	Not listed	Not listed	Not listed	Not listed
Sucrose	X	Not listed	Х	Not listed	Х
Tartaric acid	Not listed	Not listed	Not listed	Not listed	Not listed
Malic acid	Not listed	Not listed	Not listed	Not listed	Not listed
Citric acid	Not listed	Not listed	Not listed	Not listed	Not listed

U.S. Department of Transportation

Reportable Quantity (RQ): not listed DOT Marine Pollutant not listed DOT Severe Marine Pollutant not listed

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade not listed

Canada This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations (CPR) and this SDS contains all the information required by the CPR.

WHMIS Hazard Class Not controlled

16. Other information

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

Prepared By Steve Cockram

Growers Co-op

Revision Date 15-May-2015

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS